RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/833.496B
Source:	1FW/6
Date Processed by STIC:	3/23/05

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 03/23/2005
PATENT APPLICATION: US/09/833,496B TIME: 12:12:01

Input Set : A:\09820149.ST25.txt

Output Set: N:\CRF4\03232005\I833496B.raw

```
3 <110> APPLICANT: Gellman, Samuel H
            Appella, Daniel H
     5
             Lee, Hee-Seung
             LePlae, Paul
     7
             Porter, Emilie
             Wang, Xifang
     8
             Woll, Matthew
     9
    11 <120> TITLE OF INVENTION: Beta-Amino Acids
    13 <130> FILE REFERENCE: 09820.149
    15 <140 > CURRENT APPLICATION NUMBER: 09/833,496B
    16 <141> CURRENT FILING DATE: 2001-04-11
    18 <150> PRIOR APPLICATION NUMBER: 09/034,509
    19 <151> PRIOR FILING DATE: 1998-03-04
    21 <150> PRIOR APPLICATION NUMBER: 09/464,212
    22 <151> PRIOR FILING DATE: 1999-12-15
    24 <150> PRIOR APPLICATION NUMBER: 60/039,905
    25 <151> PRIOR FILING DATE: 1997-03-04
    27 <160> NUMBER OF SEQ ID NOS: 17
    29 <170> SOFTWARE: PatentIn version 3.2
    31 <210> SEQ ID NO: 1
    32 <211> LENGTH: 4
    33 <212> TYPE: PRT
    34 <213> ORGANISM: Artificial Sequence
    36 <220> FEATURE:
    37 <223> OTHER INFORMATION: Beta-Polypeptide
    40 <220> FEATURE:
    41 <221> NAME/KEY: MISC FEATURE
    42 <222> LOCATION: (1)..(1)
    43 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
    45 <220> FEATURE:
    46 <221> NAME/KEY: MISC_FEATURE
    47 <222> LOCATION: (2)..(2)
    48 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
    50 <220> FEATURE:
    51 <221> NAME/KEY: MISC FEATURE
    52 <222> LOCATION: (3)..(3)
    53 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
    55 <220> FEATURE:
    56 <221> NAME/KEY: MISC FEATURE
    57 <222> LOCATION: (4)..(4)
    58 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
     60 <400> SEQUENCE: 1
W--> 62 Xaa Xaa Xaa Xaa
```

DATE: 03/23/2005

TIME: 12:12:01

Input Set : A:\09820149.ST25.txt Output Set: N:\CRF4\03232005\I833496B.raw 63 1 66 <210> SEQ ID NO: 2 67 <211> LENGTH: 6 68 <212> TYPE: PRT 69 <213> ORGANISM: Artificial Sequence 71 <220> FEATURE: 72 <223> OTHER INFORMATION: Beta-Polypeptide 75 <220> FEATURE: 76 <221> NAME/KEY: MISC FEATURE 77 <222> LOCATION: (1)..(1) 78 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 80 <220> FEATURE: 81 <221> NAME/KEY: MISC FEATURE 82 <222> LOCATION: (2)..(2) 83 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 85 <220> FEATURE: 86 <221> NAME/KEY: MISC_FEATURE 87 <222> LOCATION: (3)..(3) 88 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 90 <220> FEATURE: 91 <221> NAME/KEY: MISC_FEATURE 92 <222> LOCATION: (4)..(4) 93 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 95 <220> FEATURE: 96 <221> NAME/KEY: MISC_FEATURE 97 <222> LOCATION: (5)..(5) 98 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 100 <220> FEATURE: 101 <221> NAME/KEY: MISC_FEATURE 102 <222> LOCATION: (6)..(6) 103 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 105 <400> SEQUENCE: 2 W--> 107 Xaa Xaa Xaa Xaa Xaa Xaa 108 1 111 <210> SEQ ID NO: 3 112 <211> LENGTH: 6 113 <212> TYPE: PRT 114 <213> ORGANISM: Artificial Sequence 116 <220> FEATURE: 117 <223> OTHER INFORMATION: Beta-Polypeptide 120 <220> FEATURE: 121 <221> NAME/KEY: MISC FEATURE 122 <222> LOCATION: (1)..(1) 123 <223> OTHER INFORMATION: 2,5-diaminocyclohexanecarboxylic acid 125 <220> FEATURE: 126 <221> NAME/KEY: MISC FEATURE 127 <222> LOCATION: (2)..(2) 128 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid 130 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/833,496B

RAW SEQUENCE LISTING DATE: 03/23/2005 PATENT APPLICATION: US/09/833,496B TIME: 12:12:01

Input Set : A:\09820149.ST25.txt

Output Set: N:\CRF4\03232005\1833496B.raw

```
131 <221> NAME/KEY: MISC_FEATURE
    132 <222> LOCATION: (3)..(3)
    133 <223> OTHER INFORMATION: 2,5-diaminocyclohexanecarboxylic acid
    135 <220> FEATURE:
    136 <221> NAME/KEY: MISC_FEATURE
    137 <222> LOCATION: (4)..(4)
    138 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
    140 <220> FEATURE:
    141 <221> NAME/KEY: MISC FEATURE
    142 <222> LOCATION: (5)..(5)
    143 <223> OTHER INFORMATION: 2,5-diaminocyclohexanecarboxylic acid
    145 <220> FEATURE:
     146 <221> NAME/KEY: MISC_FEATURE
     147 <222> LOCATION: (6)..(6)
     148 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     150 <400> SEQUENCE: 3
W--> 152 Xaa Xaa Xaa Xaa Xaa Xaa
     153 1
     156 <210> SEQ ID NO: 4
     157 <211> LENGTH: 6
     158 <212> TYPE: PRT
     159 <213> ORGANISM: Artificial Sequence
     161 <220> FEATURE:
     162 <223> OTHER INFORMATION: Beta-Polypeptide
     165 <220> FEATURE:
     166 <221> NAME/KEY: MISC_FEATURE
     167 <222> LOCATION: (1)..(1)
     168 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     170 <220> FEATURE:
     171 <221> NAME/KEY: MISC FEATURE
     172 <222> LOCATION: (2)..(2)
     173 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     175 <220> FEATURE:
     176 <221> NAME/KEY: MISC_FEATURE
     177 <222> LOCATION: (3)..(3)
     178 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     180 <220> FEATURE:
     181 <221> NAME/KEY: MISC FEATURE
     182 <222> LOCATION: (4)..(4)
     183 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     185 <220> FEATURE:
     186 <221> NAME/KEY: MISC_FEATURE
     187 <222> LOCATION: (5)..(5)
     188 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
     190 <220> FEATURE:
     191 <221> NAME/KEY: MISC FEATURE
     192 <222> LOCATION: (6)..(6)
     193 <223> OTHER INFORMATION: 2-aminocyclohexanecarboxylic acid
```

195 <400> SEQUENCE: 4

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/833,496B DATE: 03/23/2005 TIME: 12:12:01

Input Set : A:\09820149.ST25.txt

Output Set: N:\CRF4\03232005\1833496B.raw

```
W--> 197 Xaa Xaa Xaa Xaa Xaa Xaa
     198 1
     201 <210> SEQ ID NO: 5
     202 <211> LENGTH: 4
     203 <212> TYPE: PRT
     204 <213> ORGANISM: Artificial Sequence
     206 <220> FEATURE:
     207 <223> OTHER INFORMATION: Beta-Polypeptide
     210 <220> FEATURE:
     211 <221> NAME/KEY: MISC FEATURE
     212 <222> LOCATION: (1)..(1)
     213 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid
     215 <220> FEATURE:
     216 <221> NAME/KEY: MISC_FEATURE
     217 <222> LOCATION: (2)..(2)
     218 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
     220 <220> FEATURE:
     221 <221> NAME/KEY: MISC FEATURE
     222 <222> LOCATION: (3)..(3)
     223 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid
     225 <220> FEATURE:
     226 <221> NAME/KEY: MISC FEATURE
     227 <222> LOCATION: (4)..(4)
     228 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
     230 <400> SEQUENCE: 5
W--> 232 Xaa Xaa Xaa Xaa
     233 1
     236 <210> SEQ ID NO: 6
     237 <211> LENGTH: 6
     238 <212> TYPE: PRT
     239 <213> ORGANISM: Artificial Sequence
     241 <220> FEATURE:
     242 <223> OTHER INFORMATION: Beta-Polypeptide
     245 <220> FEATURE:
     246 <221> NAME/KEY: MISC FEATURE
     247 <222> LOCATION: (1)..(1)
     248 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid
     250 <220> FEATURE:
     251 <221> NAME/KEY: MISC FEATURE
     252 <222> LOCATION: (2)..(2)
     253 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
     255 <220> FEATURE:
     256 <221> NAME/KEY: MISC FEATURE
     257 <222> LOCATION: (3)..(3)
     258 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid
     260 <220> FEATURE:
     261 <221> NAME/KEY: MISC FEATURE
     262 <222> LOCATION: (4)..(4)
     263 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid
```

DATE: 03/23/2005

TIME: 12:12:01

PATENT APPLICATION: US/09/833,496B Input Set : A:\09820149.ST25.txt Output Set: N:\CRF4\03232005\1833496B.raw 265 <220> FEATURE: 266 <221> NAME/KEY: MISC FEATURE 267 <222> LOCATION: (5)..(5) 268 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid 270 <220> FEATURE: 271 <221> NAME/KEY: MISC FEATURE 272 <222> LOCATION: (6)..(6) 273 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 275 <400> SEQUENCE: 6 W--> 277 Xaa Xaa Xaa Xaa Xaa 278 1 281 <210> SEQ ID NO: 7 282 <211> LENGTH: 8 283 <212> TYPE: PRT 284 <213> ORGANISM: Artificial Sequence 286 <220> FEATURE: 287 <223> OTHER INFORMATION: Beta-Polypeptide 290 <220> FEATURE: 291 <221> NAME/KEY: MISC_FEATURE 292 <222> LOCATION: (1)..(1) 293 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid 295 <220> FEATURE: 296 <221> NAME/KEY: MISC FEATURE 297 <222> LOCATION: (2)..(2) 298 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 300 <220> FEATURE: 301 <221> NAME/KEY: MISC FEATURE 302 <222> LOCATION: (3)..(3) 303 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid 305 <220> FEATURE: 306 <221> NAME/KEY: MISC FEATURE 307 <222> LOCATION: (4)..(4) 308 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 310 <220> FEATURE: 311 <221> NAME/KEY: MISC FEATURE 312 <222> LOCATION: (5)..(5) 313 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid 315 <220> FEATURE: 316 <221> NAME/KEY: MISC FEATURE 317 <222> LOCATION: (6)..(6) 318 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid 320 <220> FEATURE: 321 <221> NAME/KEY: MISC FEATURE 322 <222> LOCATION: (7)..(7) 323 <223> OTHER INFORMATION: 2-amino-4-pyrrolidinecarboxylic acid 325 <220> FEATURE: 326 <221> NAME/KEY: MISC_FEATURE 327 <222> LOCATION: (8)..(8) 328 <223> OTHER INFORMATION: 2-aminocyclopentanecarboxylic acid

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/23/2005 PATENT APPLICATION: US/09/833,496B TIME: 12:12:02

Input Set : A:\09820149.ST25.txt

Output Set: N:\CRF4\03232005\1833496B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; Xaa Pos. 1/2, 3, 4, 5, 6

Seq#:2; Xaa Pos. 1/2, 3, 4, 5, 6

Seq#:3; Xaa Pos. 1/2, 3, 4, 5, 6

Seq#:4; Xaa Pos. 1, 2, 3, 4, 5, 6

Seq#:5; Xaa Pos. 1/2, 3, 4, 5, 6

Seq#:6; Xaa Pos. 1/2, 3, 4, 5, 6, 7, 8

Seq#:8; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8

Seq#:9; Xaa Pos. 1, 2, 3, 4, 5, 6

Seq#:10; Xaa Pos. 1, 2, 3, 4

Seq#:11; Xaa Pos. 1, 2, 3, 4

Seq#:12; Xaa Pos. 1, 3, 4

Seq#:13; Xaa Pos. 1, 2, 3, 4, 5, 6

Seq#:14; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8

Seq#:15; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8

Seq#:15; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Seq#:16; Xaa Pos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
```

DATE: 03/23/2005

TIME: 12:12:02

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/833,496B

Input Set : A:\09820149.ST25.txt

Output Set: N:\CRF4\03232005\1833496B.raw

```
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
```